

Fig. 1A

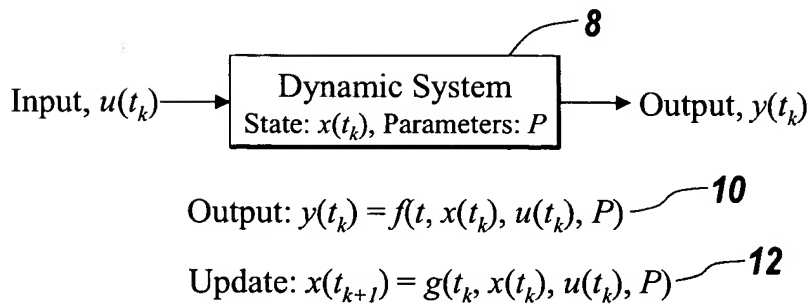


Fig. 1B

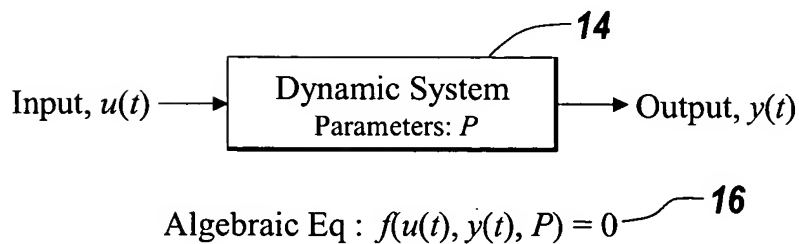


Fig. 1C

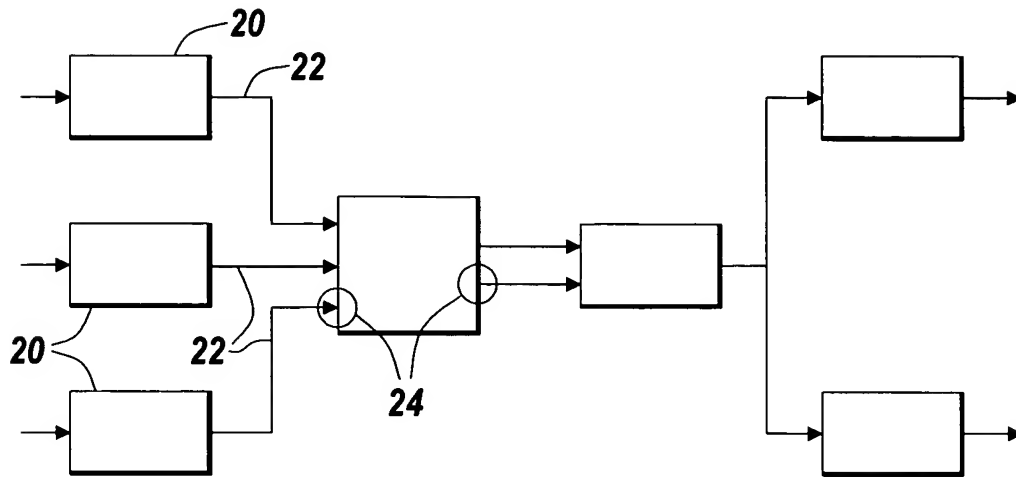


Fig. 2

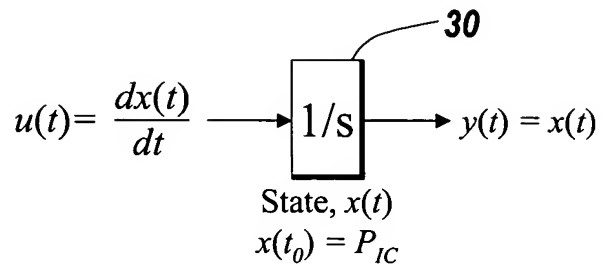


Fig. 3

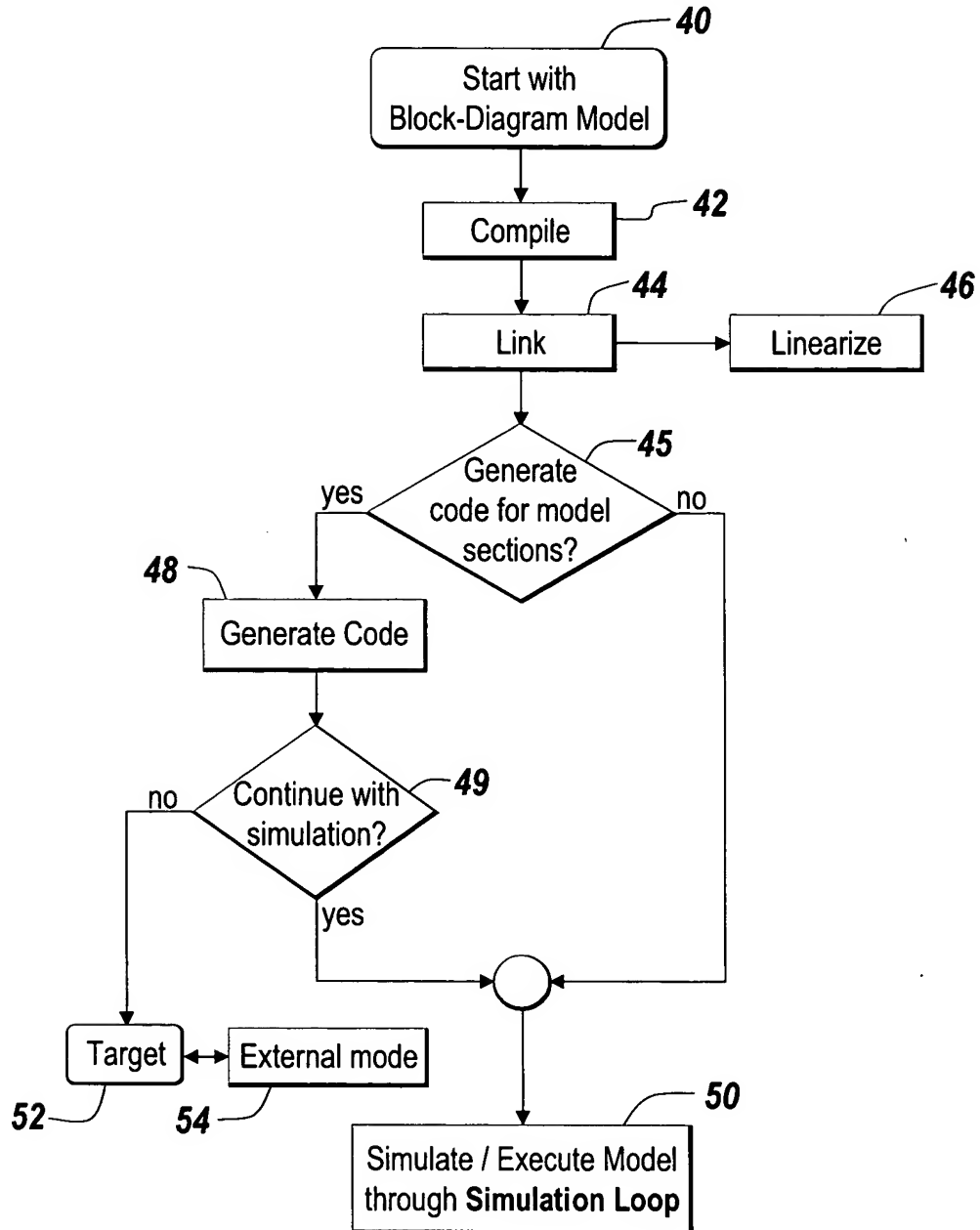


Fig. 4

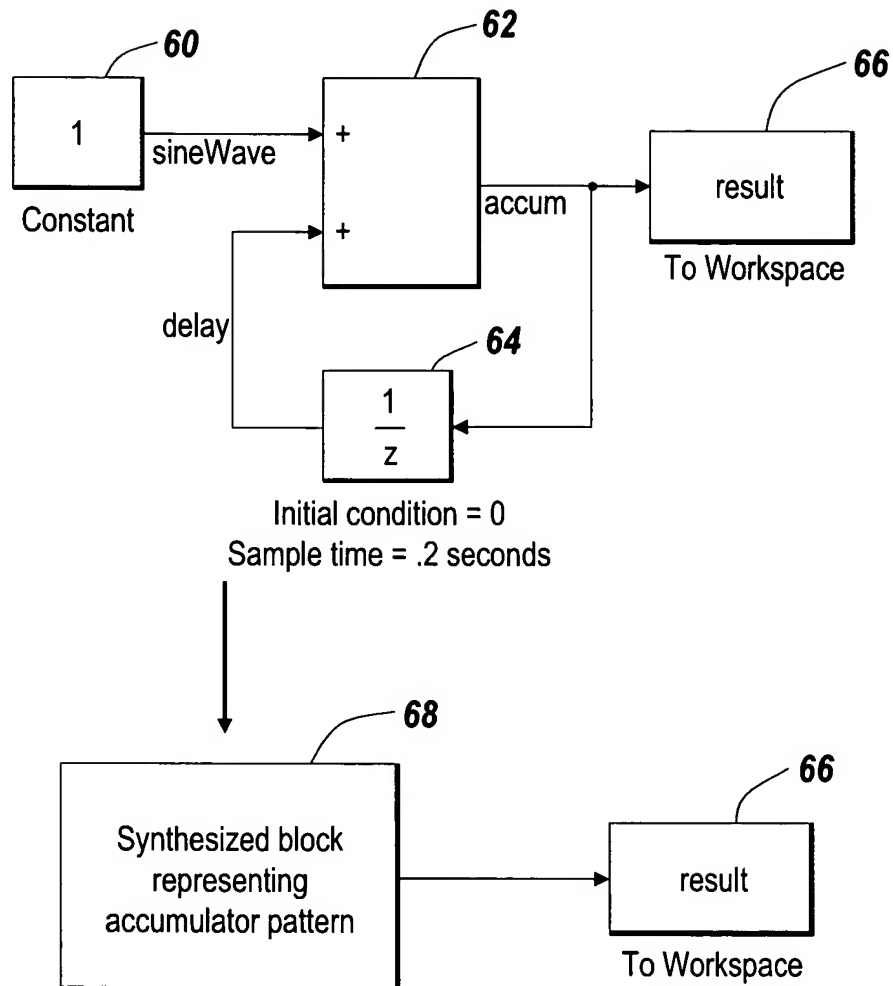


Fig. 5

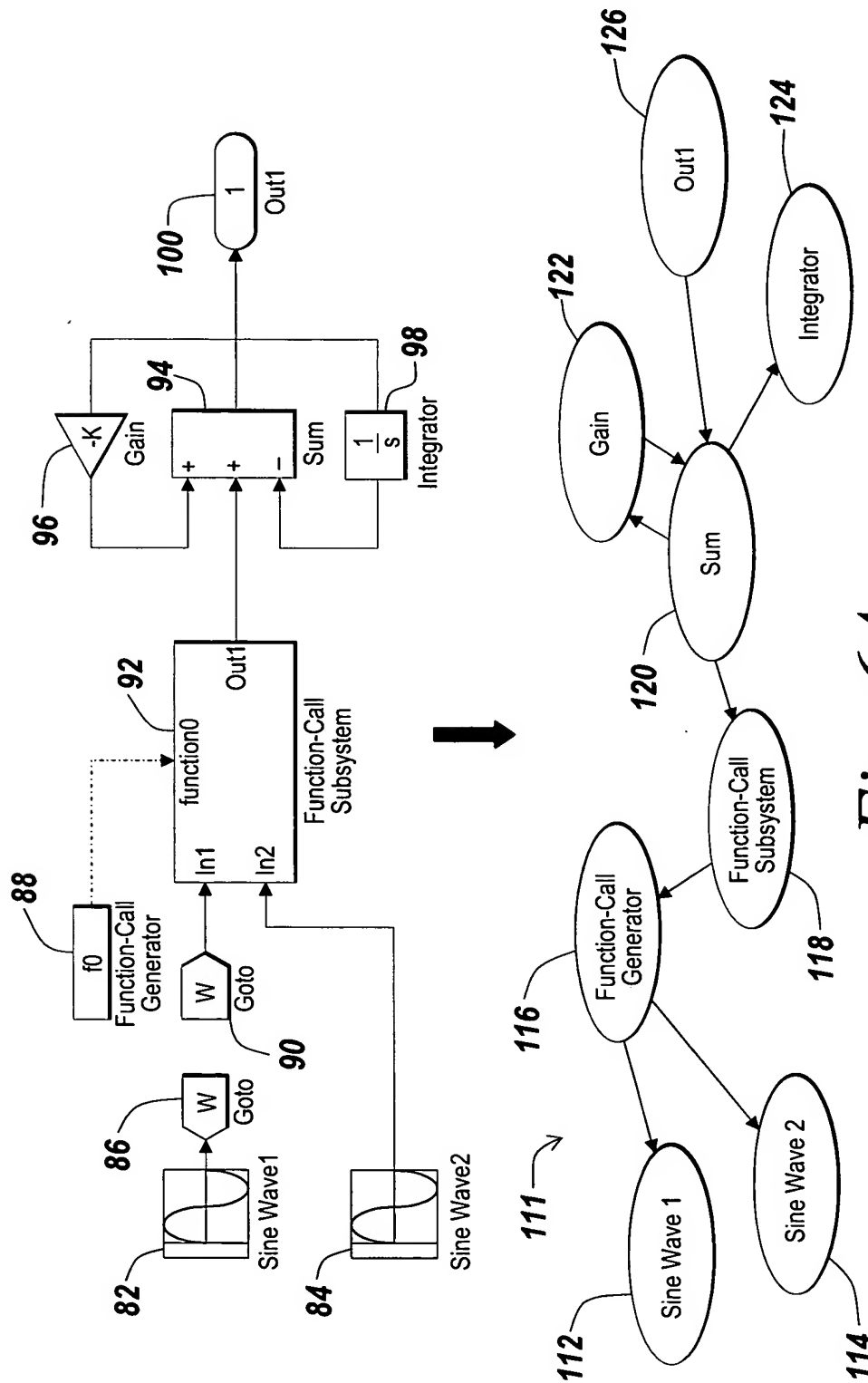


Fig. 6A

Sorted List:

128
↙

0:0 Sine Wave 1
0:1 Sine Wave 2
0:2 Function-Call Generator
0:3 Function-Call Subsystem
0:4 Integrator
0:5 Gain (algebraic id 0#1)
0:6 Sum (algebraic variable for id 0#1)
0:7 Out1

Fig. 6B

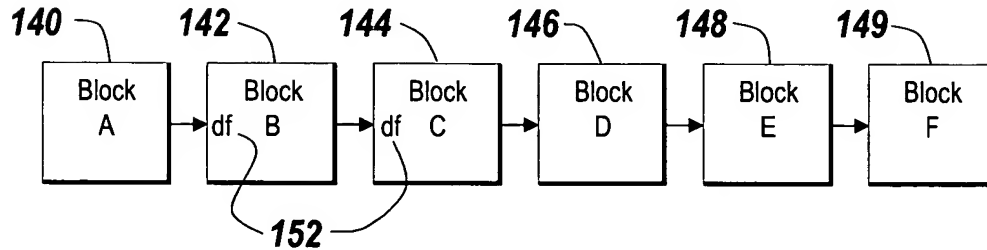


Fig. 7A

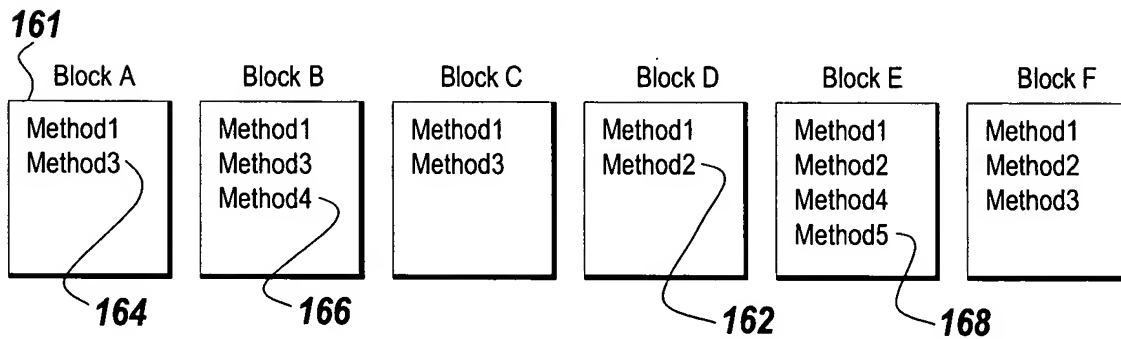


Fig. 7B

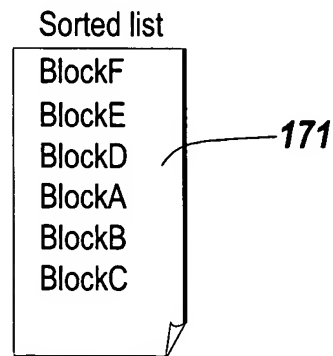


Fig. 7C

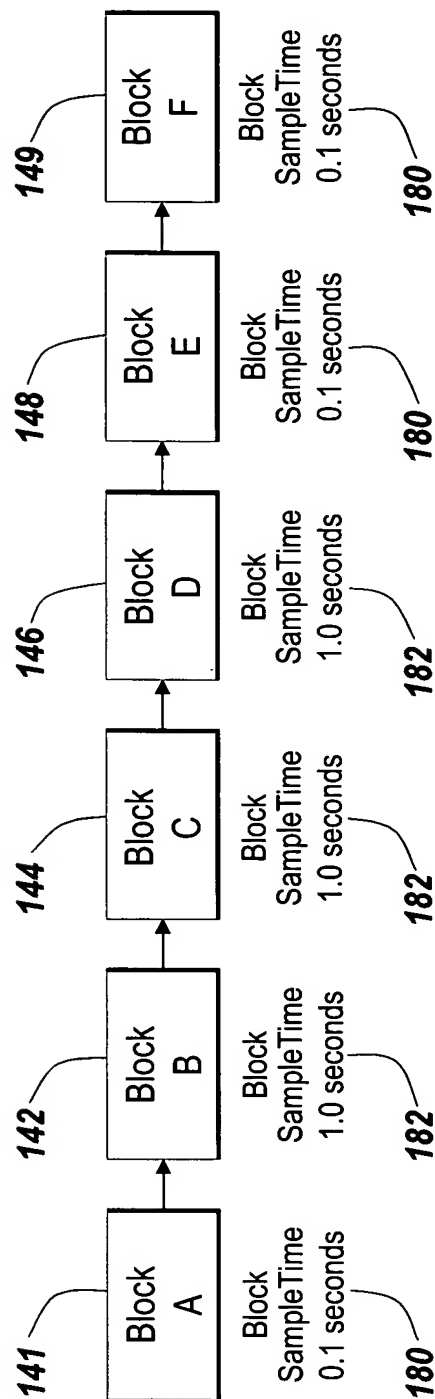


Fig. 8

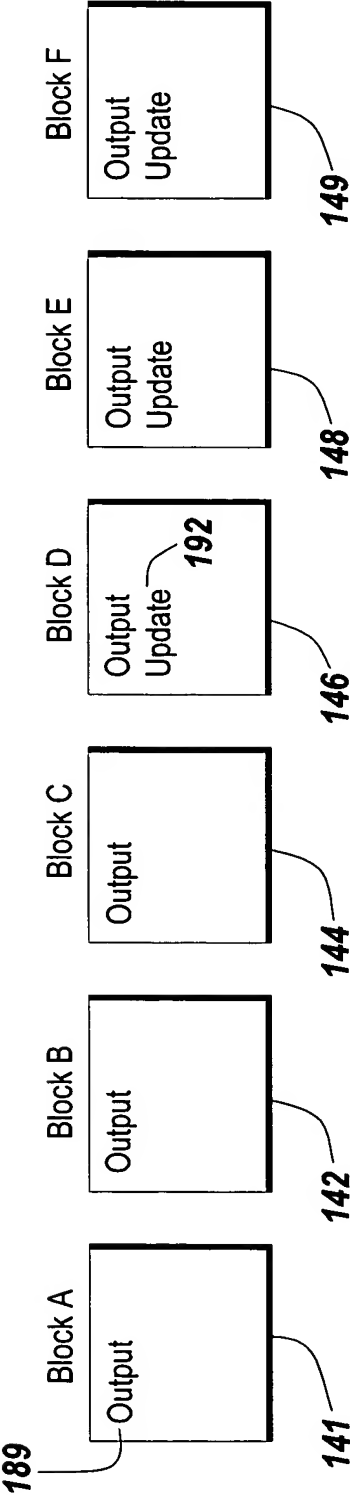


Fig. 9

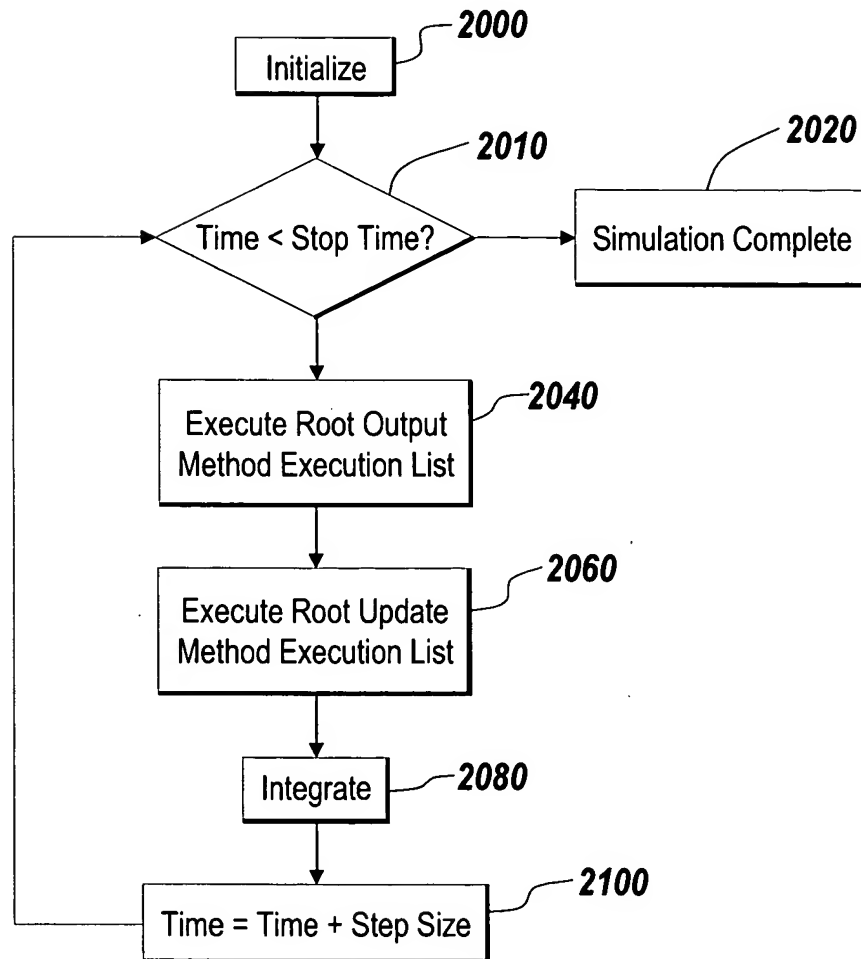


Fig. 10

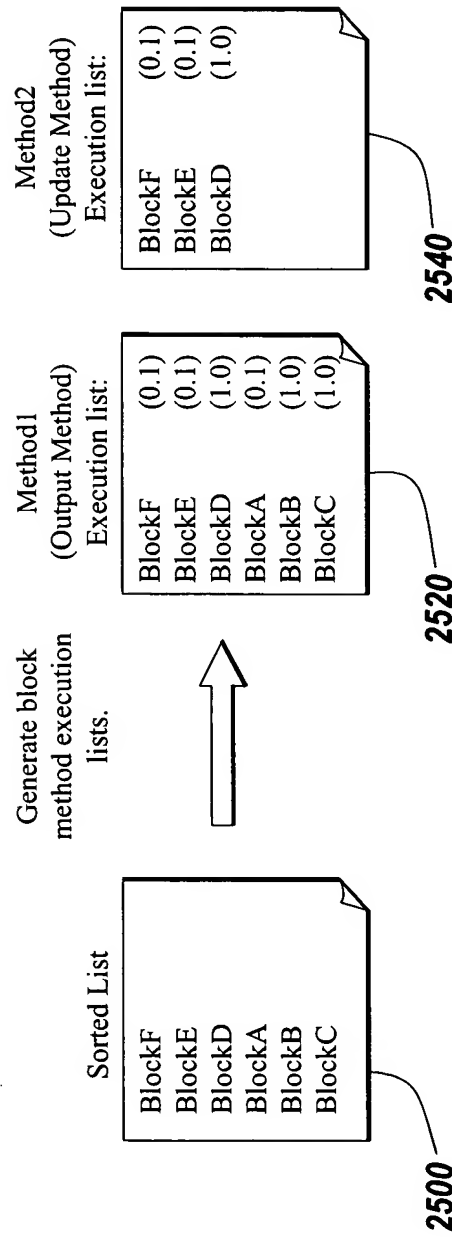


Fig. 11A

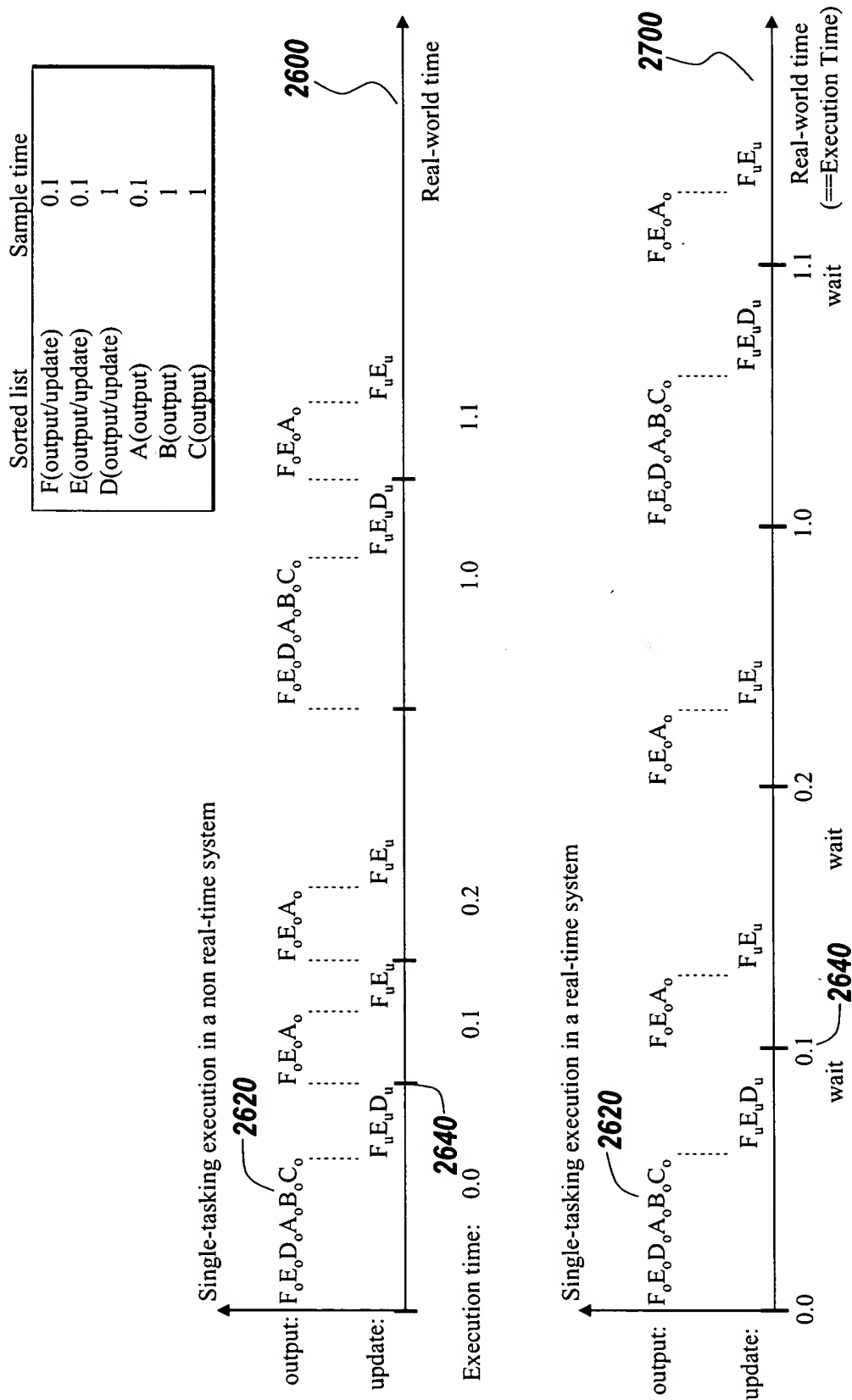


Fig. 11B

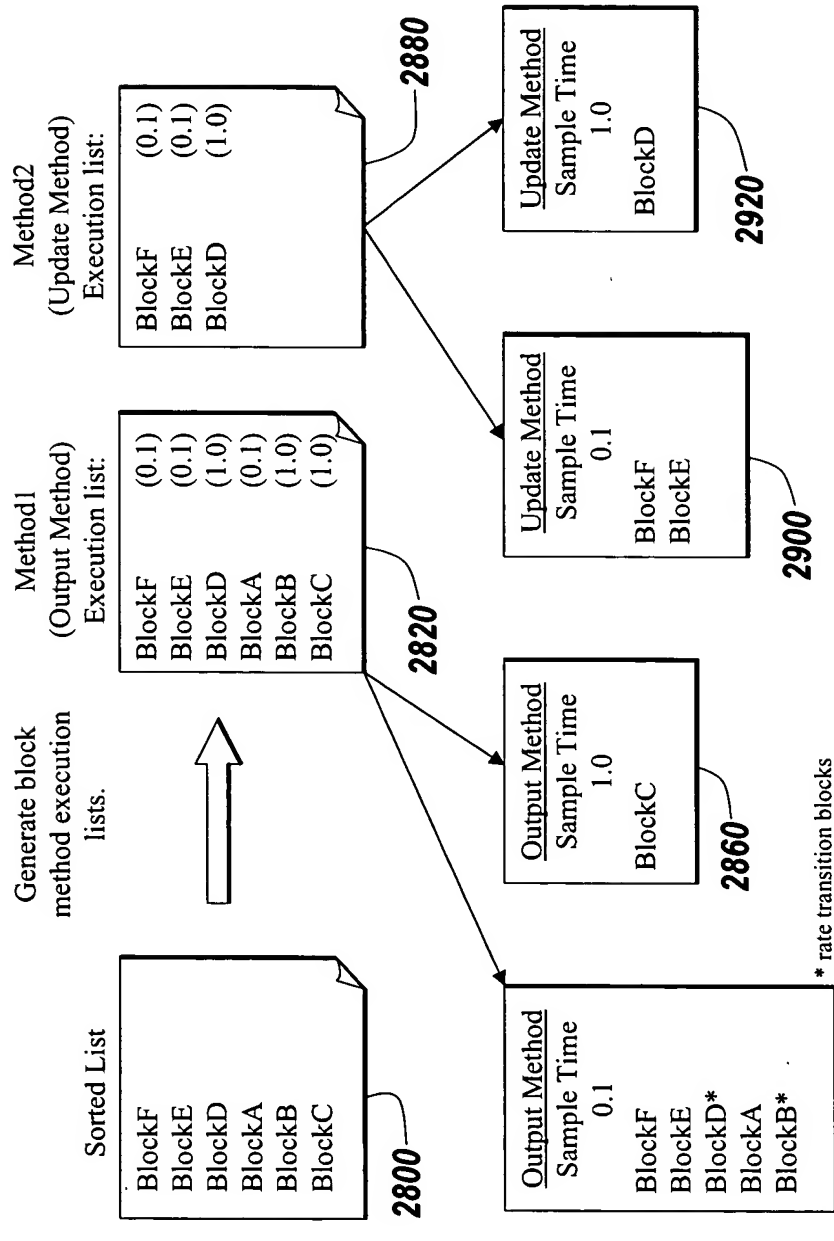


Fig. 12A

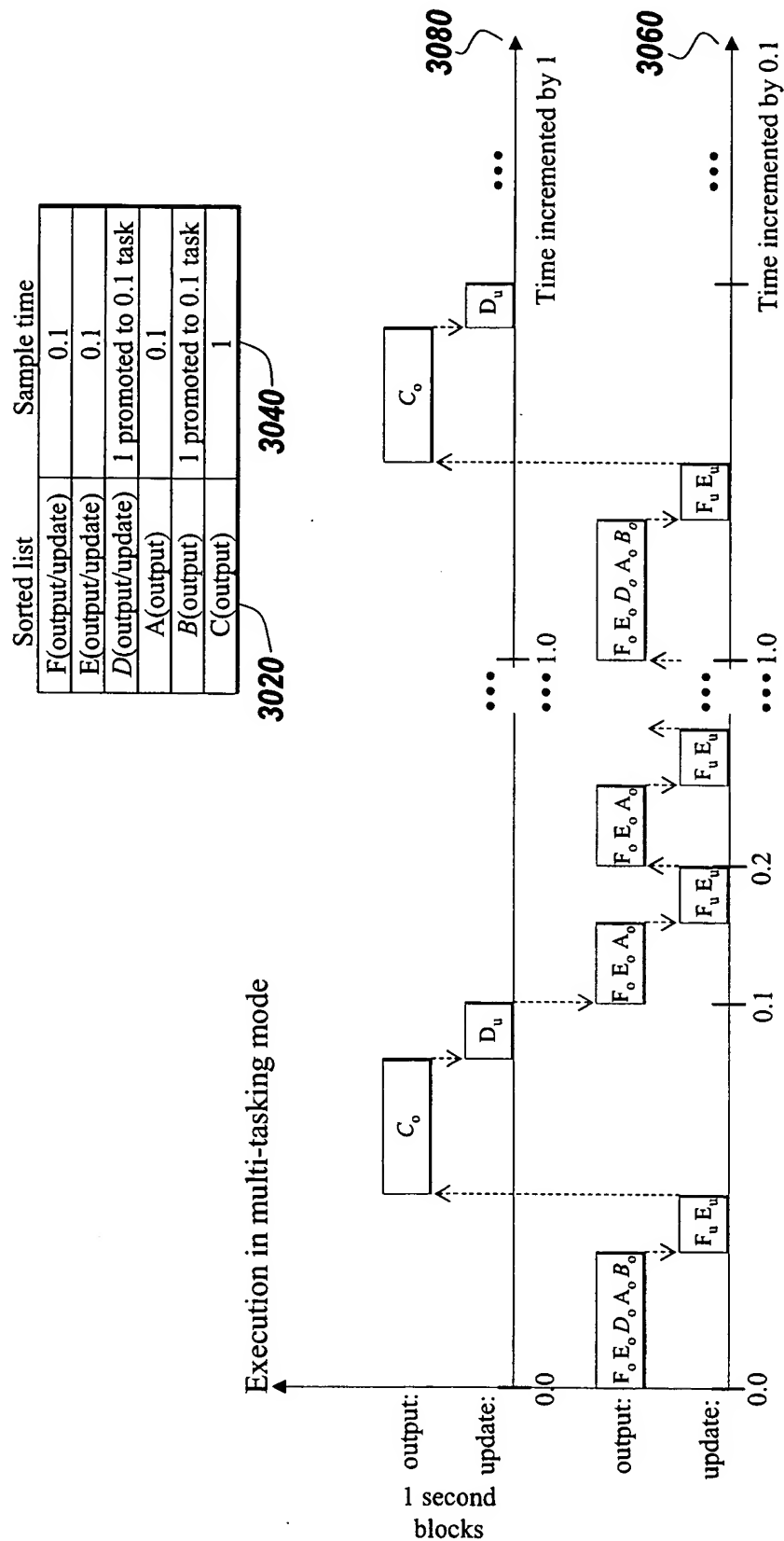


Fig. 12B

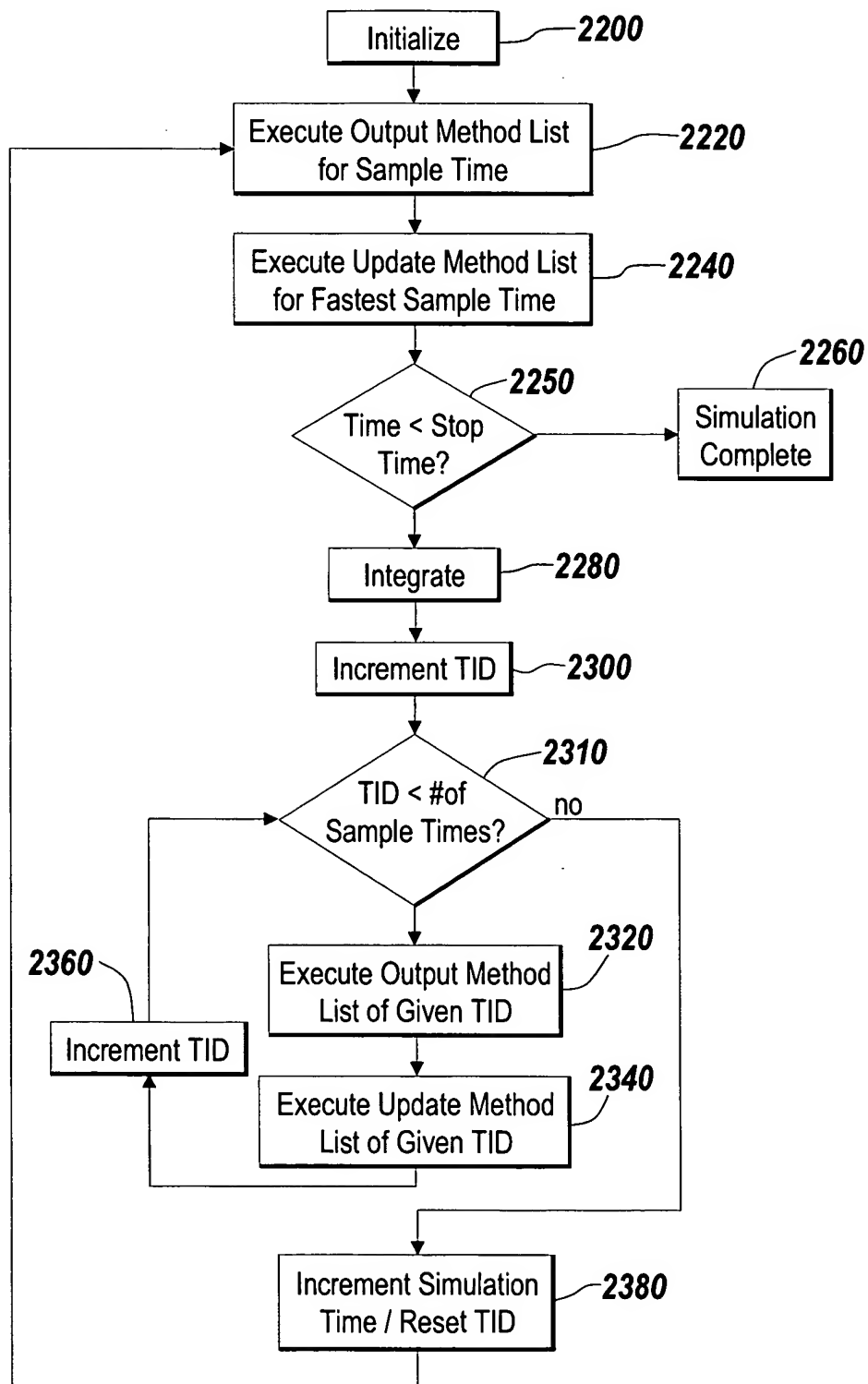


Fig. 13

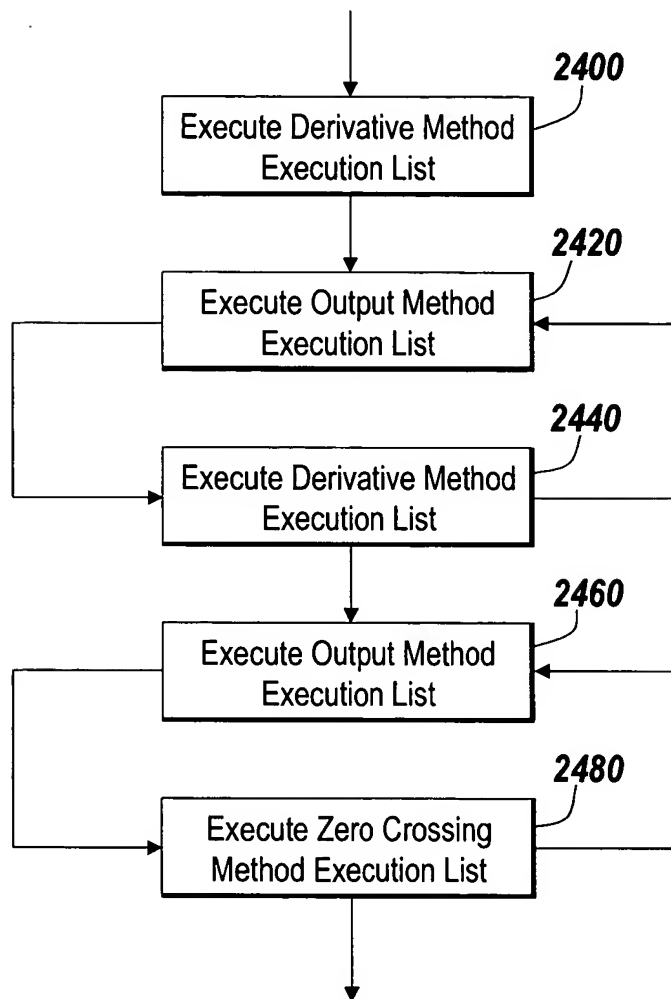


Fig. 14

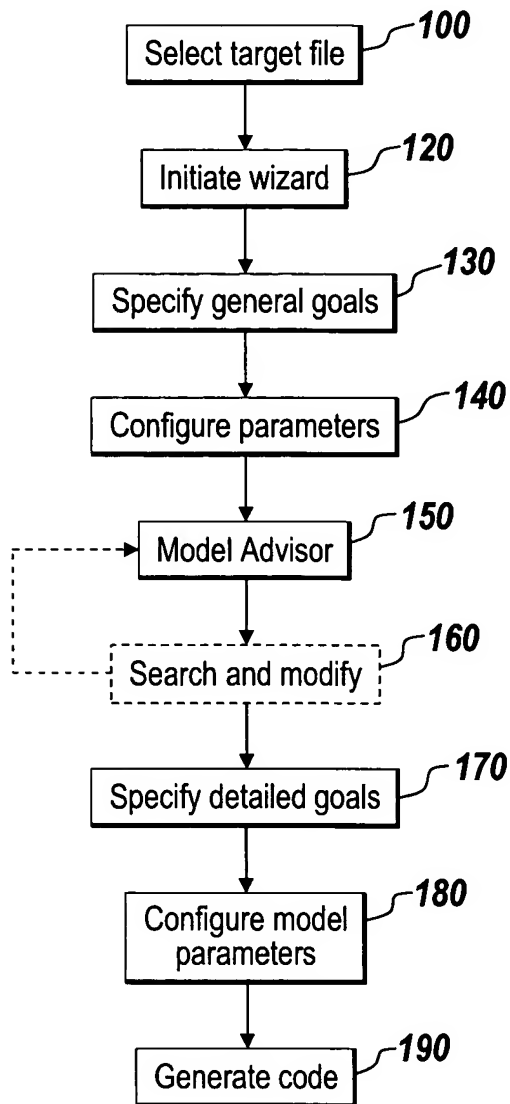


Fig. 15

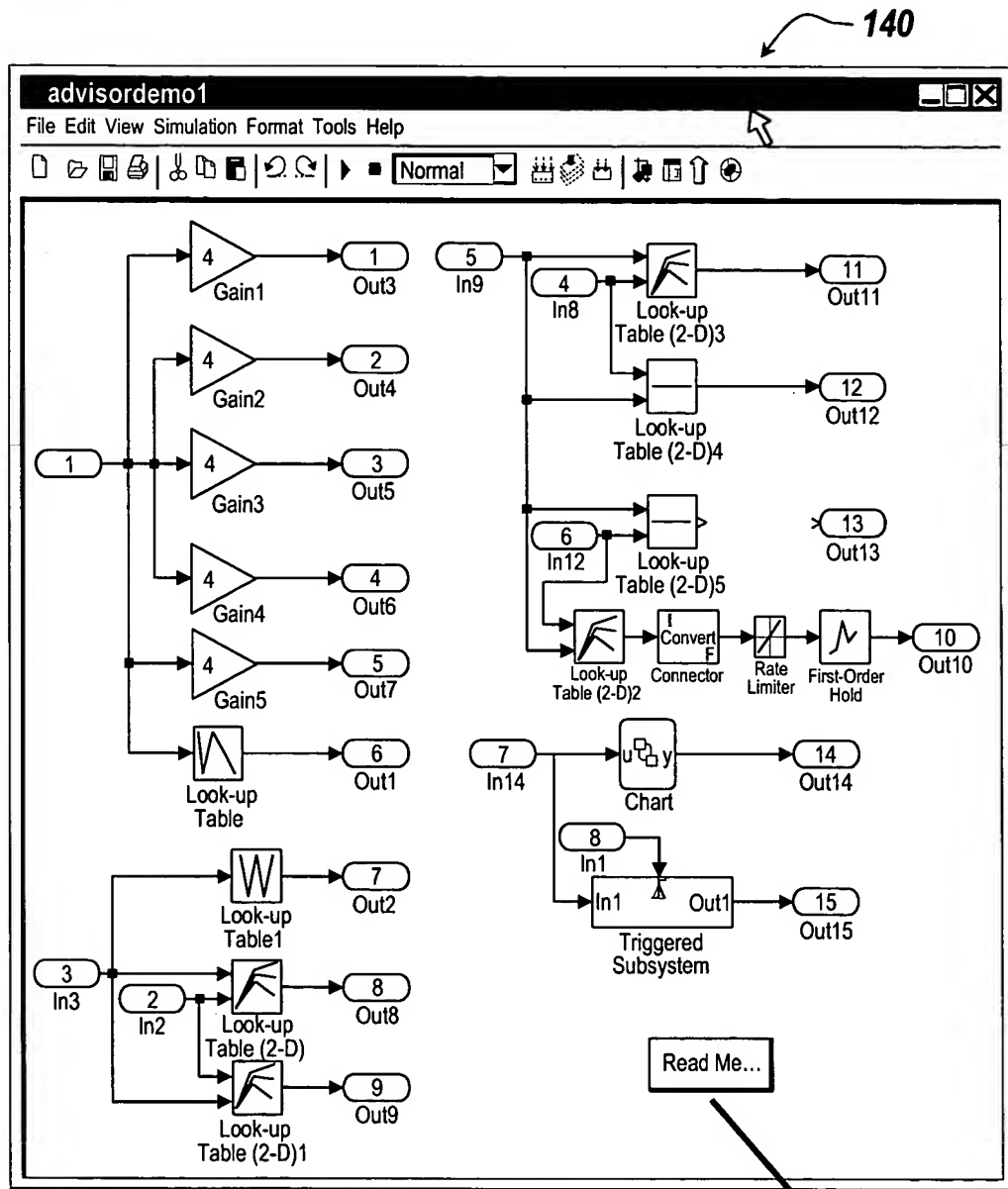


Fig. 16A

See Fig. 16B

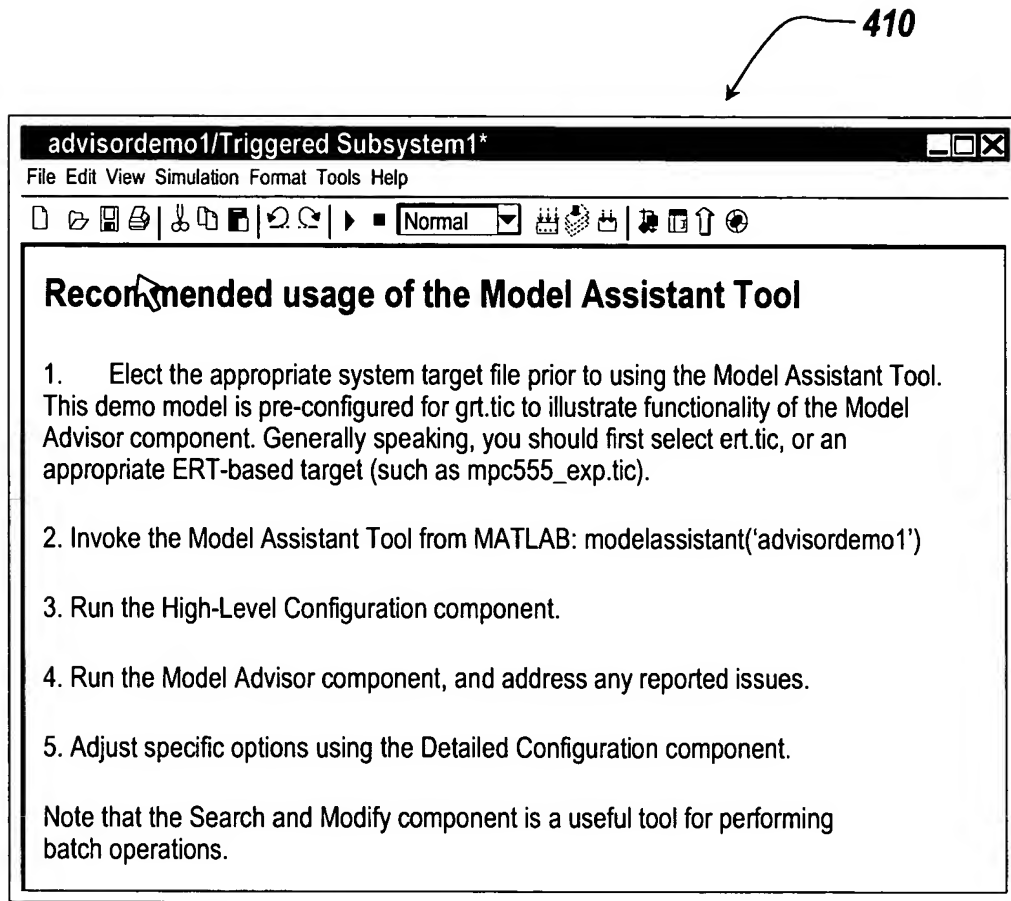


Fig. 16B

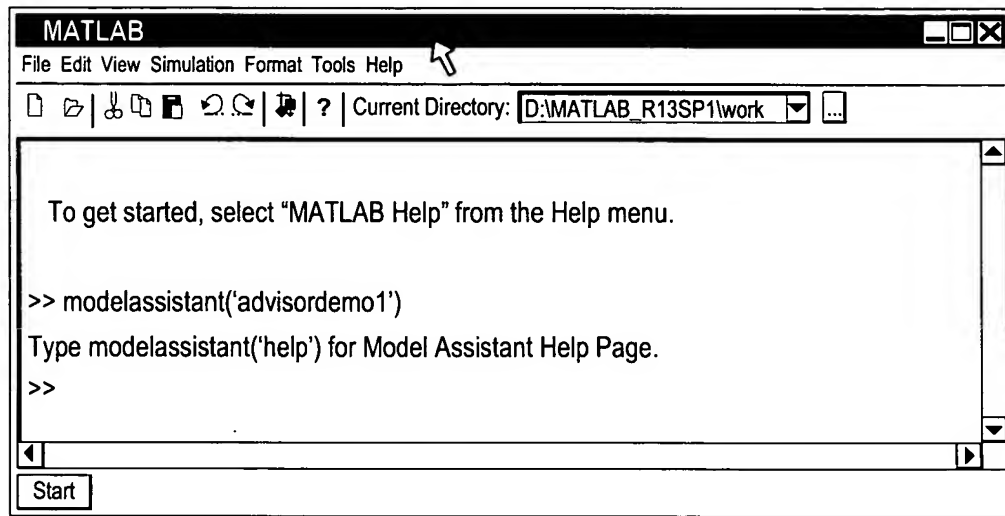


Fig. 16C

1000

Model Assistant: advisordemo1

General Code Generation Goals

Detailed Code Generation Goals

Model Advisor

Search and Modify

Start in system: advisordemo1

Configure model properties based on answers to the following general code generation goals. Configuration goals are designed around Real-Time Workshop Embedded Coder features. For best results, pre-configure your model to use an Embedded Real-Time (ERT) based target, such as `ert.tic` or `mpc555_exp.tic`, prior to configuration.

What is your target application?
Do you want to configure code generation options for maximum efficiency?
What aspect of memory is more important?
What type of auto-generated identifiers do you want (affects code appearance only)?
Do you want to include comments in the generated code?
What is your required interface?
Are you combining multiple into the same executable?
Do you want to include an HTML report with the generated code?

Floating point

Yes

ROM

Verbose

Yes

None

Yes

Yes

Configure Model

200

Fig. 17

Object	Parameter	Value
boisordemo1	propcion_PackIntFormatError	0 (twice 0)
boisordemo1	propcion_BooleanDataType	0 (twice 0)
boisordemo1	propcion_IntegerIntegerSignals	0 (twice 0)
boisordemo1	propcion_SuppressErrorsStatus	0 (twice 0)
boisordemo1	propcion_BooleanBooleanFormatError	0 (twice 0)
boisordemo1	propcion_ConditionCircularInputs	0 (twice 0)
boisordemo1	propcion_GenerateComments	0 (twice 0)
boisordemo1	propcion_EditMode	0 (twice 0)
boisordemo1	propcion_GenerateReport	0 (twice 0)

Object	Parameter	Value
boisordemo1	propcion_PureIntegerCode	0
boisordemo1	BufferRelease	on
boisordemo1	propcion_ErrorCancelDialogCancel	0
boisordemo1	propcion_JustInstanceErrorCode	0
boisordemo1	propcion_ConstantOutputUpdateFns	1
boisordemo1	propcion_ModifiedLogging	0
boisordemo1	SizeBelow_Statistics	0
boisordemo1	SizeBelow_Statistics	0
boisordemo1	propcion_IncHierarchyLimits	1
boisordemo1	propcion_IncDataTypeLimits	1
boisordemo1	propcion_ProhibitModelSubtypesOnTables	1

Go to Model Advisor

FIGURE 19A

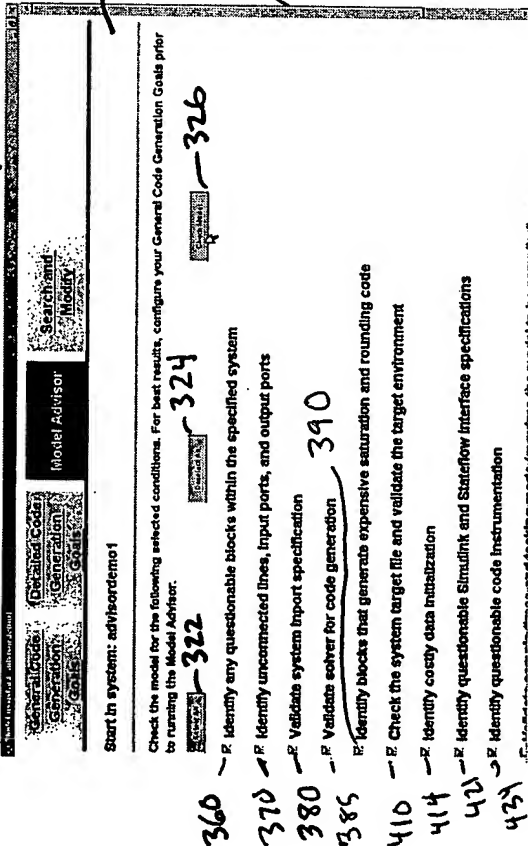


FIGURE 19B

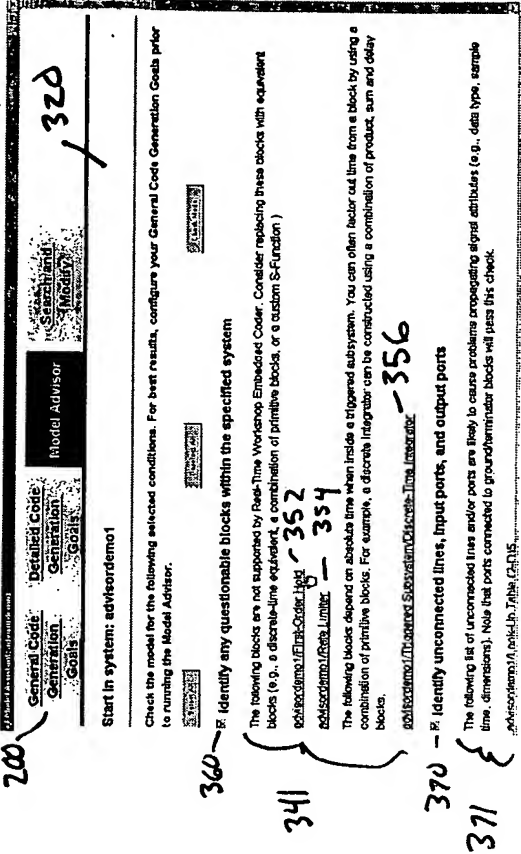


FIGURE 19C

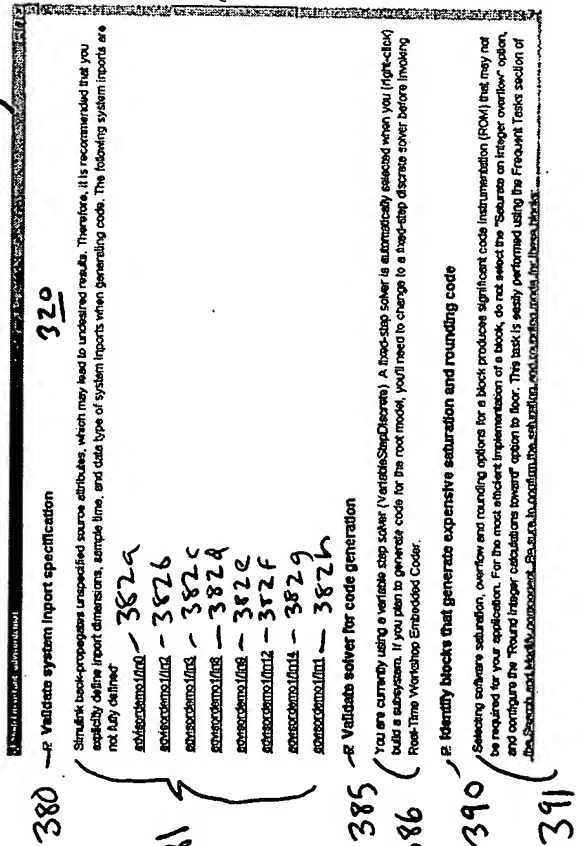


FIGURE 20

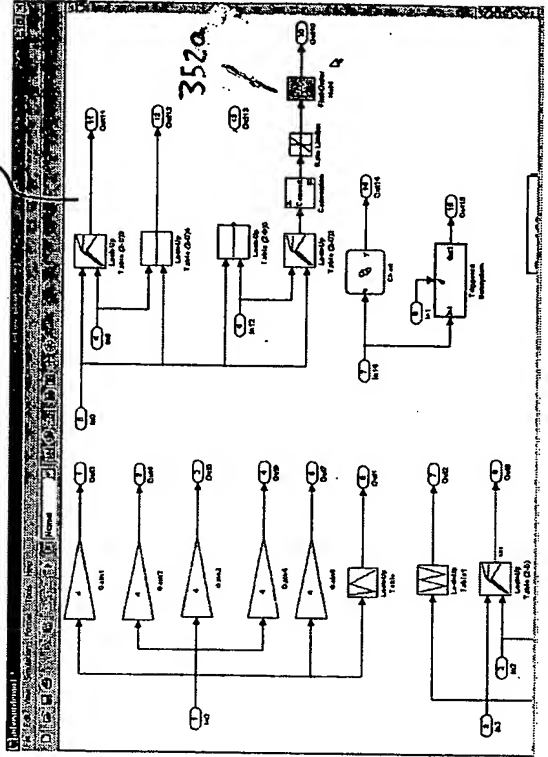


FIGURE 21A

FIGURE 21A

General Code Generation Goals

Search and Modify

Model/Advisor

Start in system: advisordemo1

Search and modify objects in the current system. In each case, the search is performed on all blocks contained within the hierarchy of the active system (not looking under masks.) Attributes are always case insensitive. Values follow the "Match case for value" setting unless otherwise specified.

Frequent tasks - 521

Simulink object search - 511

Stateflow object search

Search and replace Simulink text

Parameter name search

Using prompt string

Using property/value

Simulink object search: specify a general Simulink object search and modify action. This search mechanism is useful when you know the specific names of underlying attributes.

Simulink objects:

Block: ☐ Signal ☐ Annotation ☐ Input port ☐ Output port

Search criteria:

Predefined options

AND

Other parameters (specify)

Match case for value

Show full path name

515

500

511

513

516

FIGURE 21B

FIGURE 21B

General Code Generation Goals

Search and Modify

Model/Advisor

Start in system: advisordemo1

Search and modify objects in the current system. In each case, the search is performed on all blocks contained within the hierarchy of the active system (not looking under masks.) Attributes are always case insensitive. Values follow the "Match case for value" setting unless otherwise specified.

Frequent tasks - 521

Simulink object search - 511

Stateflow object search

Search and replace Simulink text

Parameter name search

Using prompt string

Using property/value

Simulink object search: specify a general Simulink object search and modify action. This search mechanism is useful when you know the specific names of underlying attributes.

Simulink objects:

Block: ☐ Signal ☐ Annotation ☐ Input port ☐ Output port

Search criteria:

Predefined options

AND

Other parameters (specify)

Match case for value

Show full path name

515

500

511

513

516

FIGURE 21C

General Code Generation Goals

Search and Modify

Model/Advisor

Start in system: advisordemo1

Search and modify objects in the current system. In each case, the search is performed on all blocks contained within the hierarchy of the active system (not looking under masks.) Attributes are always case insensitive. Values follow the "Match case for value" setting unless otherwise specified.

Frequent tasks - 521

Simulink object search - 511

Stateflow object search

Search and replace Simulink text

Parameter name search

Using prompt string

Using property/value

Simulink object search: specify a general Simulink object search and modify action. This search mechanism is useful when you know the specific names of underlying attributes.

Simulink objects:

Block: ☐ Signal ☐ Annotation ☐ Input port ☐ Output port

Search criteria:

Predefined options

AND

Other parameters (specify)

Match case for value

Show full path name

515

500

511

513

516

FIGURE 21D

General Code Generation Goals

Search and Modify

Model/Advisor

Start in system: advisordemo1

Search and modify objects in the current system. In each case, the search is performed on all blocks contained within the hierarchy of the active system (not looking under masks.) Attributes are always case insensitive. Values follow the "Match case for value" setting unless otherwise specified.

Frequent tasks - 521

Simulink object search - 511

Stateflow object search

Search and replace Simulink text

Parameter name search

Using prompt string

Using property/value

Simulink object search: specify a general Simulink object search and modify action. This search mechanism is useful when you know the specific names of underlying attributes.

Simulink objects:

Block: ☐ Signal ☐ Annotation ☐ Input port ☐ Output port

Search criteria:

Predefined options

AND

Other parameters (specify)

Match case for value

Show full path name

515

500

511

513

516

FIGURE 21C

FIGURE 21D

FIGURE 22D

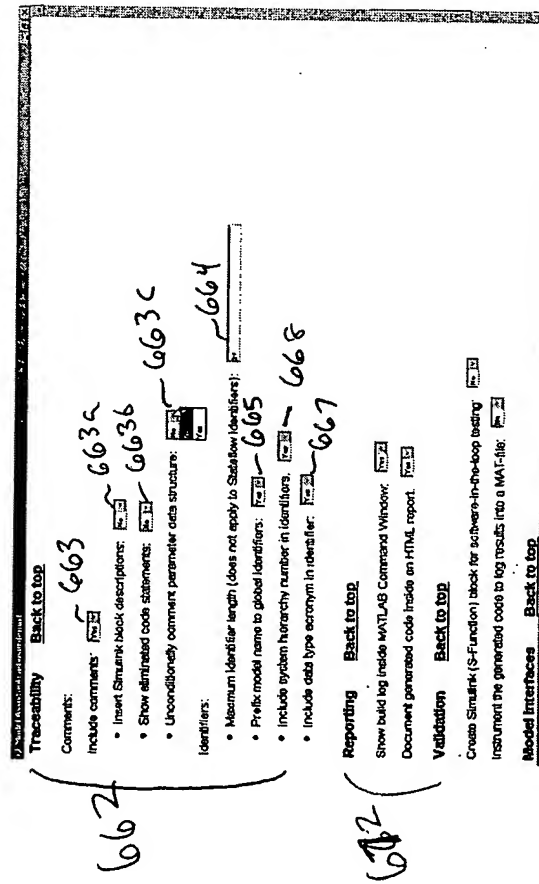
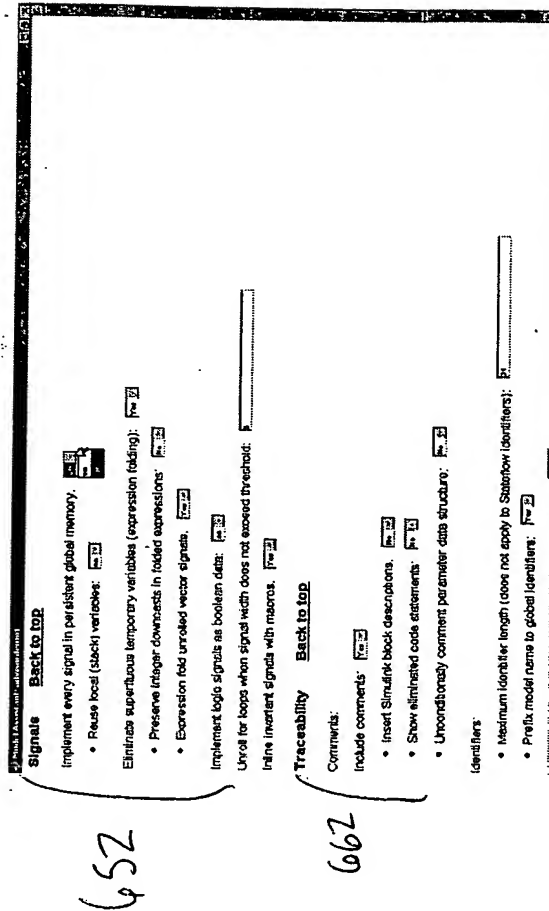


FIGURE 22E

FIGURE 22F

FIGURE 226

Start in system: **advisordemo1**

Configure model properties based on settings in these categories of code generation goals (may reset properties previously configured by the General Code Generation Goals.) Configuration goals are designed around Real-Time Workshop Embedded Coder features.

Target environment

Block diagram optimizations

Data

Parameters

Signals

Traceability

Reporting

Validation

Model interfaces

Target environment

Back to top

Tasking mode: **Real-time**

Generate a concise example main program for this model: **No**

FIGURE 23

Start in system: **advisordemo1**

Update results

Objects changed

Object	Parameter	Value
advisordemo1	hwoption_MultiInstanceCode	Yes (Y)

Objects not changed

Object	Parameter	Value
advisordemo1	hwoption_SolverMode	SingleTasking
advisordemo1	hwoption_GenerateSampleRTMain	1
advisordemo1	hwoption_TermOS	BoardBoardExample
advisordemo1	hwoption_PureIntegerCode	0
advisordemo1	hwoption_GenFirmwareForCats	ANSI C
advisordemo1	hwoption_DeviceType	Microprocessor
advisordemo1	hwoption_HardWare	8, 10, 10, 32
advisordemo1	hwoption_ReductionOpt	on
advisordemo1	hwoption_BoardInput	on